FIG.1

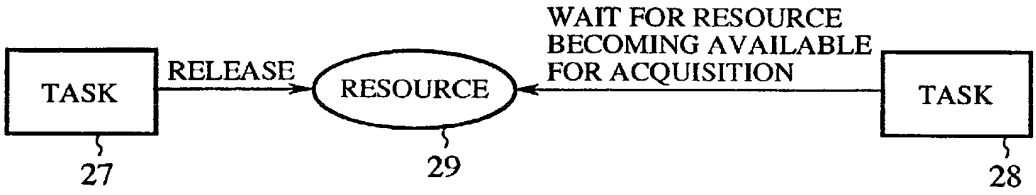

FIG.2

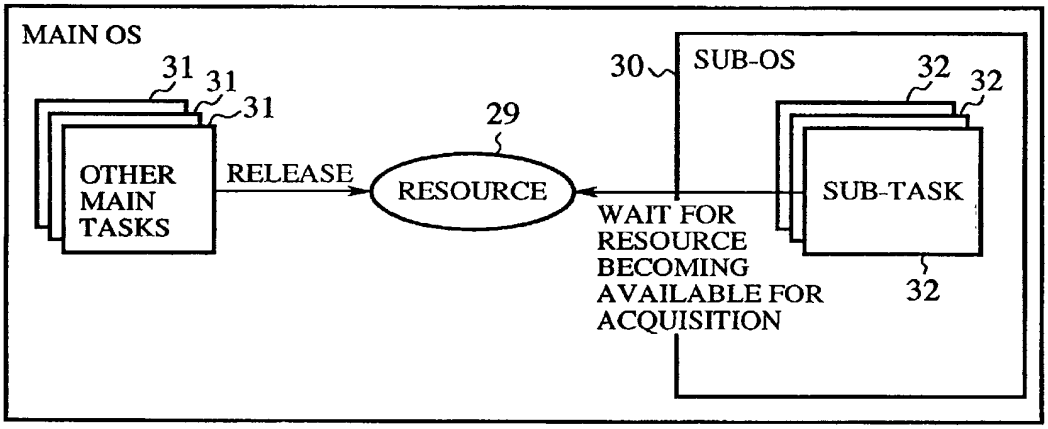

FIG.3

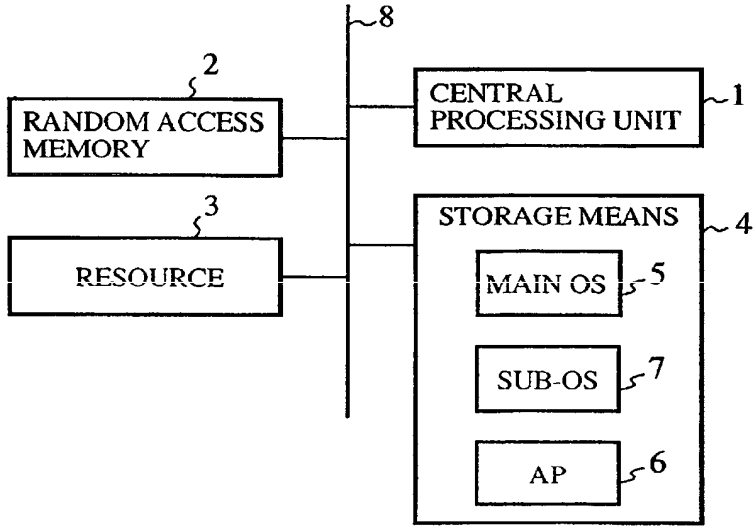

FIG.4

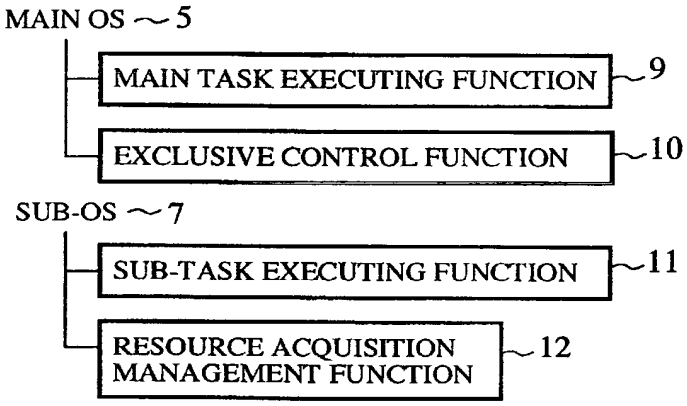

FIG.5

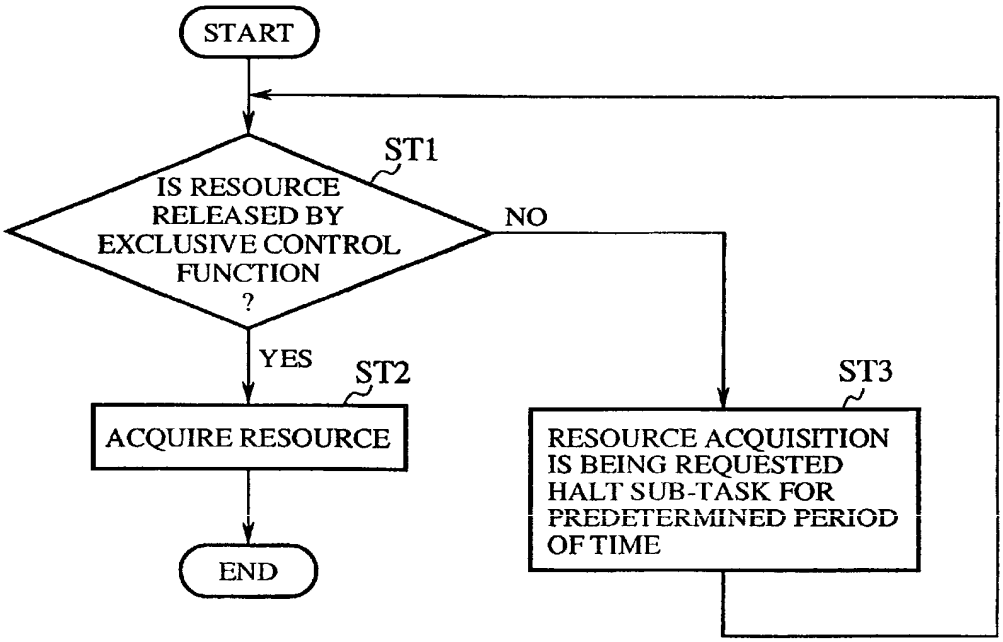

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FIG.6

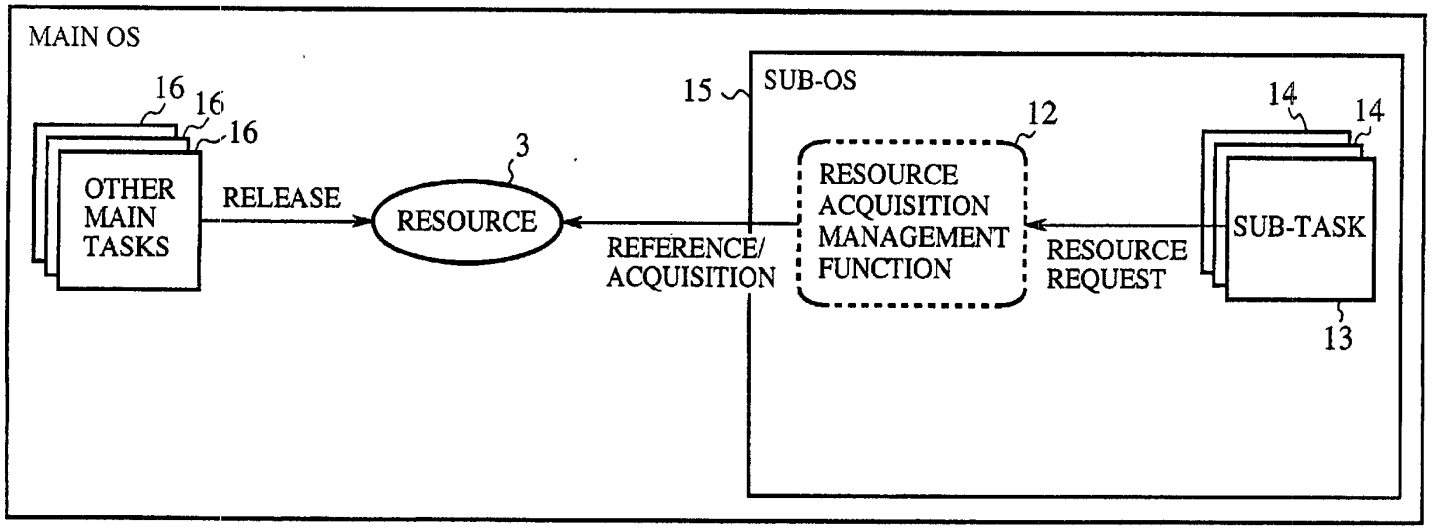

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FIG.7

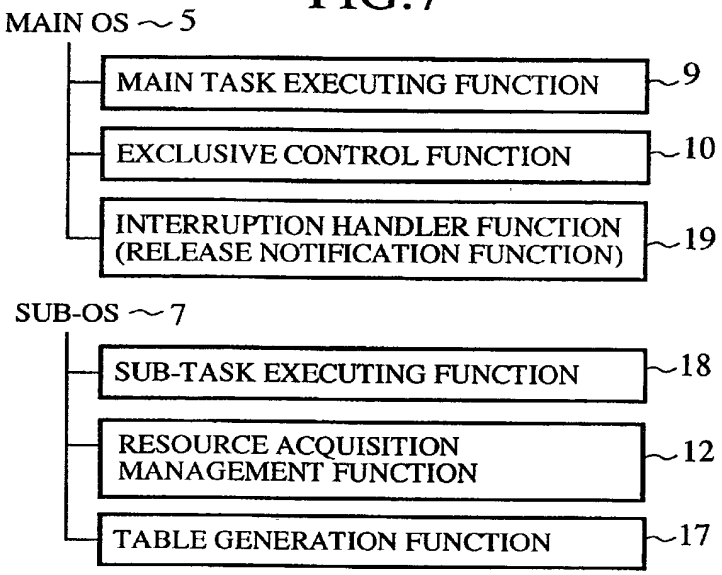

FIG.8

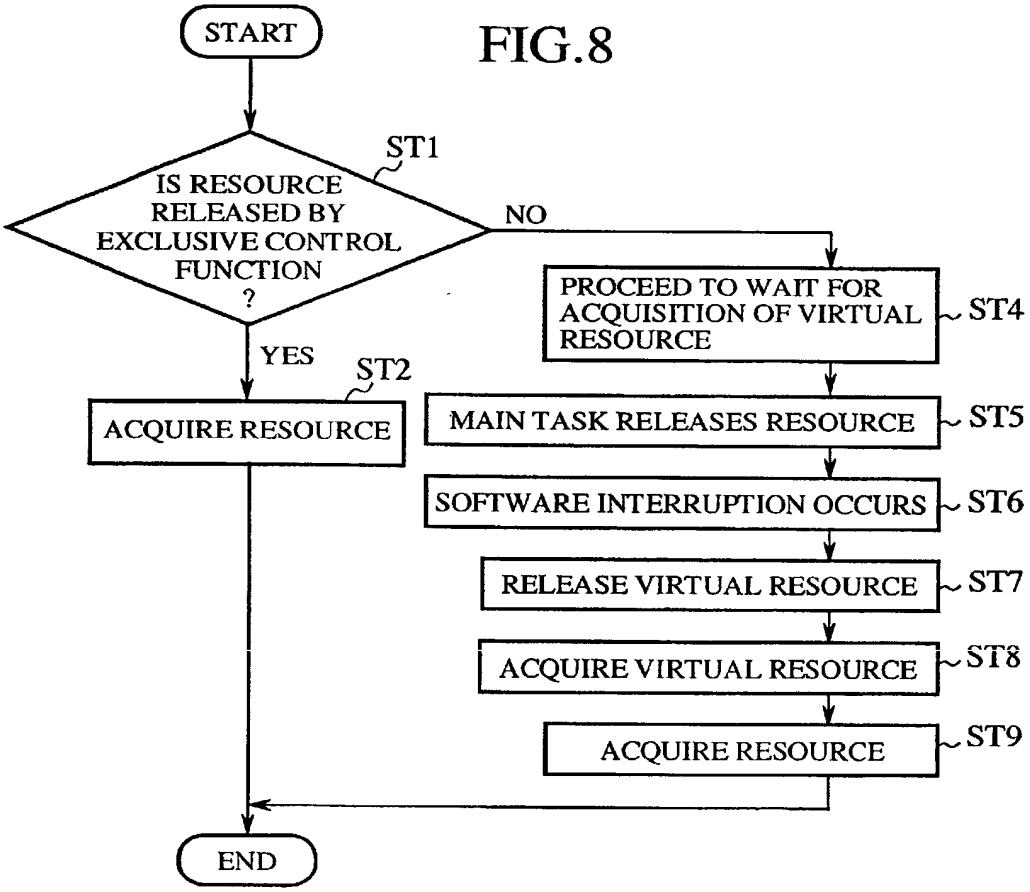

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FIG.9

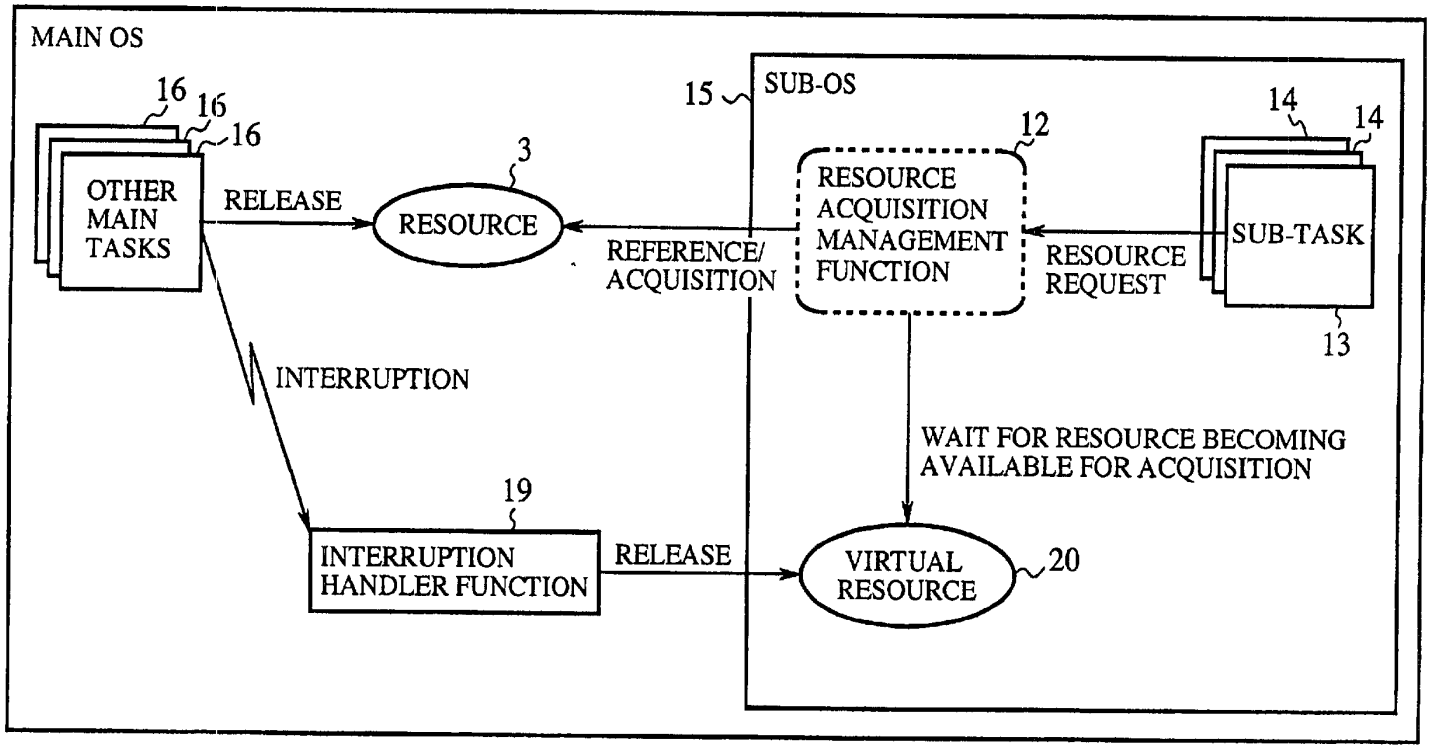
MAIN OS
SUB-OS
15
16
16
16
OTHER MAIN TASKS
RELEASE
3
RESOURCE
REFERENCE/ ACQUISITION
12
RESOURCE ACQUISITION MANAGEMENT FUNCTION
RESOURCE REQUEST
14
14
SUB-TASK
13
INTERRUPTION
WAIT FOR RESOURCE BECOMING AVAILABLE FOR ACQUISITION
19
INTERRUPTION HANDLER FUNCTION
RELEASE
VIRTUAL RESOURCE
20

FIG.10

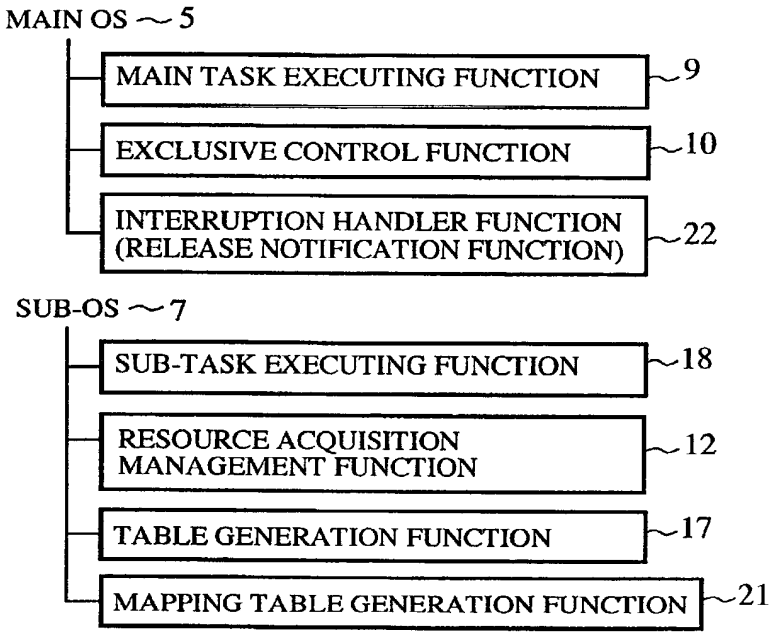

FIG.11

RESOURCES ON MAIN OS	CORRESPONDING RESOURCES ON SUB-OS
RESOURCE (A)	VIRTUAL RESOURCE (B)
RESOURCE (C)	VIRTUAL RESOURCE (D)
RESOURCE (E)	VIRTUAL RESOURCE (F)
RESOURCE (G)	VIRTUAL RESOURCE (H)
⋮	⋮

FIG.12

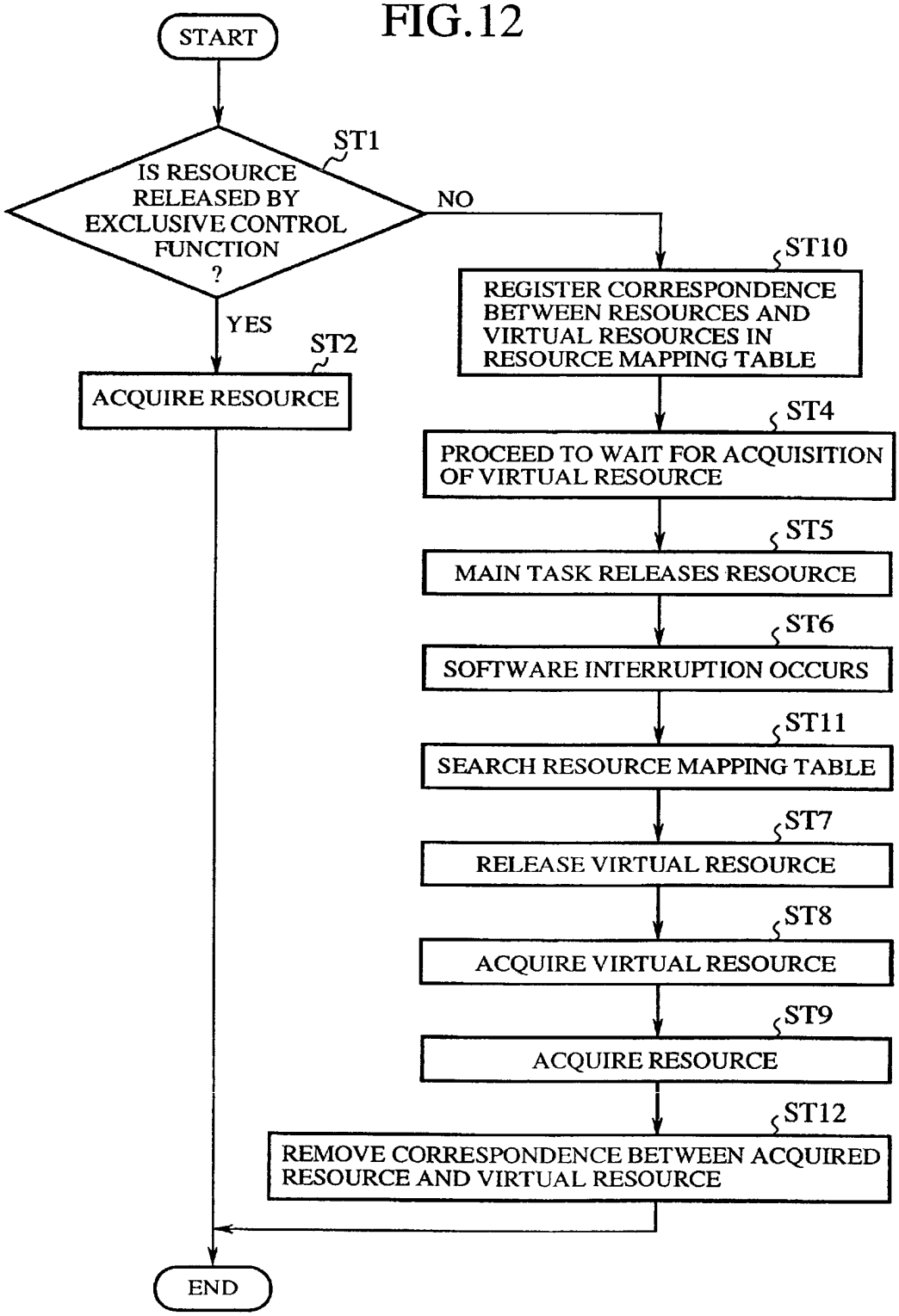
START
ST1
IS RESOURCE RELEASED BY EXCLUSIVE CONTROL FUNCTION ?
NO
YES
ST2
ACQUIRE RESOURCE
ST10
REGISTER CORRESPONDENCE BETWEEN RESOURCES AND VIRTUAL RESOURCES IN RESOURCE MAPPING TABLE
ST4
PROCEED TO WAIT FOR ACQUISITION OF VIRTUAL RESOURCE
ST5
MAIN TASK RELEASES RESOURCE
ST6
SOFTWARE INTERRUPTION OCCURS
ST11
SEARCH RESOURCE MAPPING TABLE
ST7
RELEASE VIRTUAL RESOURCE
ST8
ACQUIRE VIRTUAL RESOURCE
ST9
ACQUIRE RESOURCE
ST12
REMOVE CORRESPONDENCE BETWEEN ACQUIRED RESOURCE AND VIRTUAL RESOURCE
END

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FIG.13

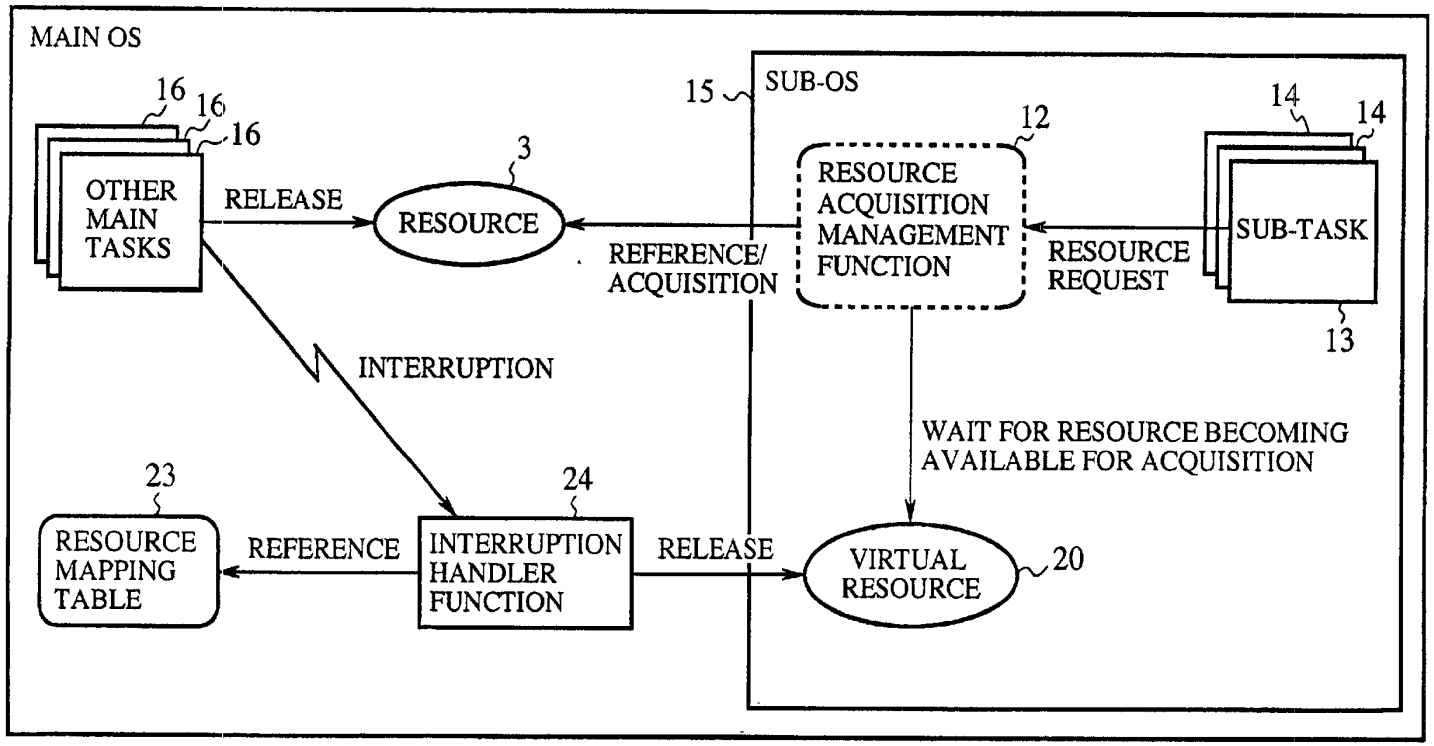

FIG.14

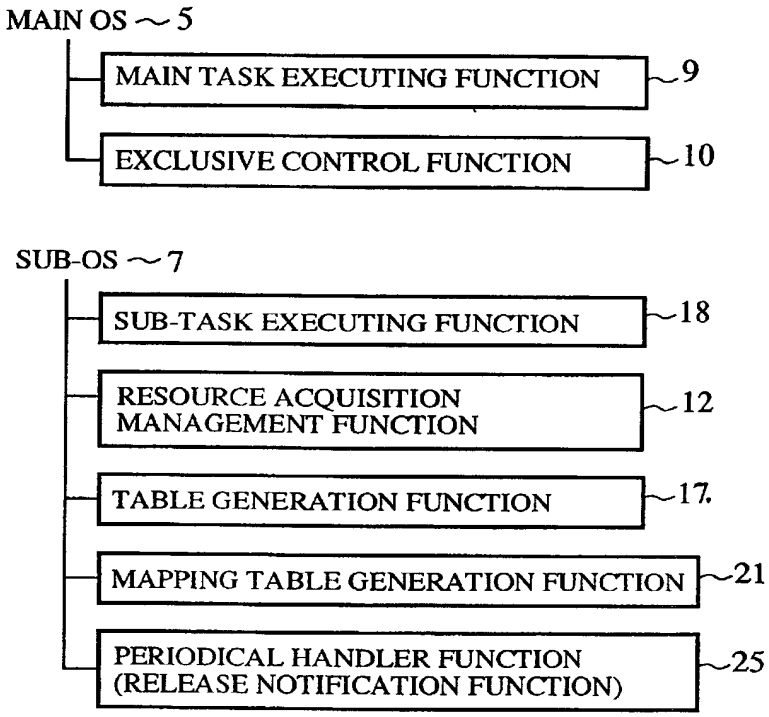
MAIN OS ~5
MAIN TASK EXECUTING FUNCTION
9
EXCLUSIVE CONTROL FUNCTION
10
SUB-OS ~7
SUB-TASK EXECUTING FUNCTION
18
RESOURCE ACQUISITION MANAGEMENT FUNCTION
12
TABLE GENERATION FUNCTION
17
MAPPING TABLE GENERATION FUNCTION
21
PERIODICAL HANDLER FUNCTION (RELEASE NOTIFICATION FUNCTION)
25

FIG.15

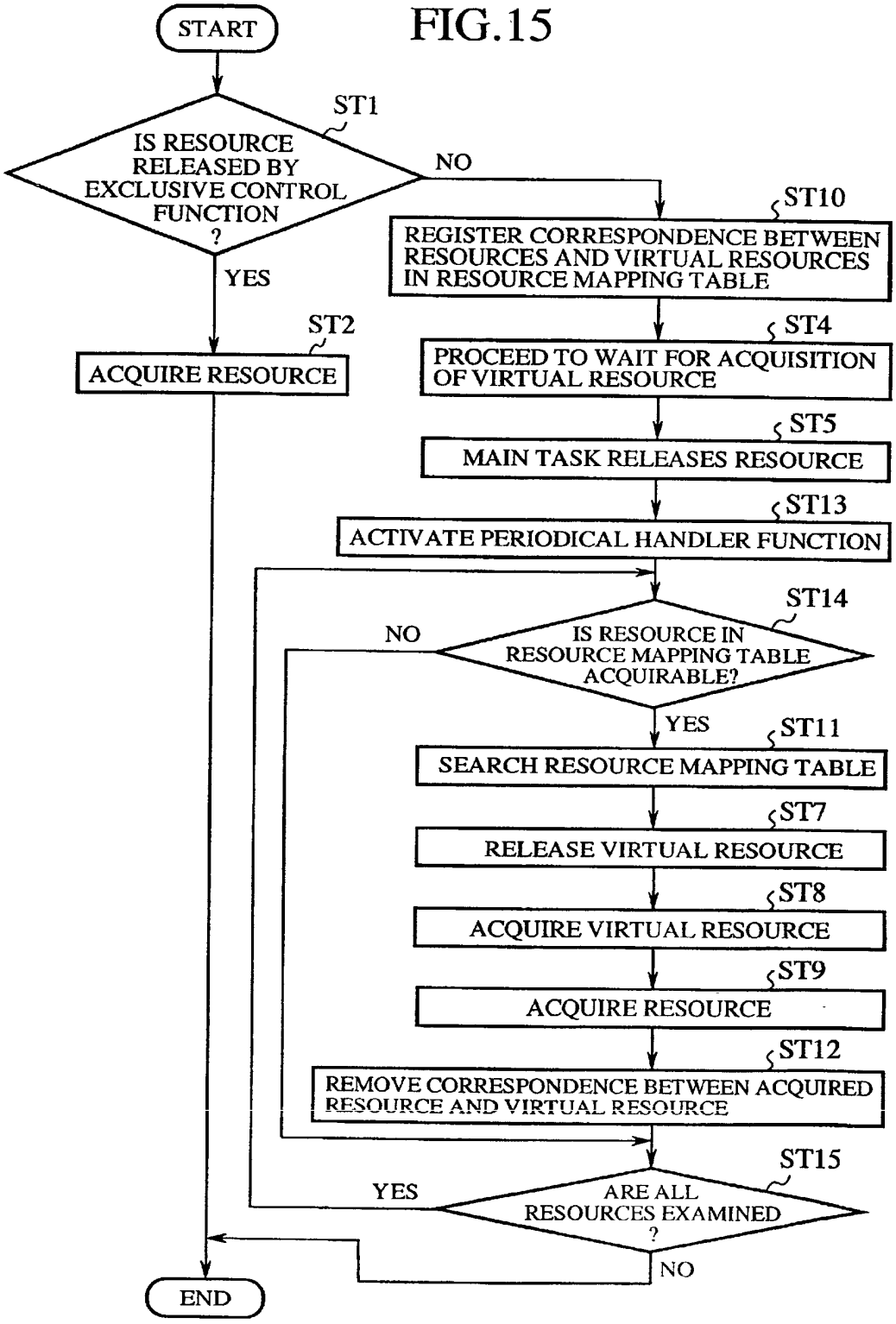

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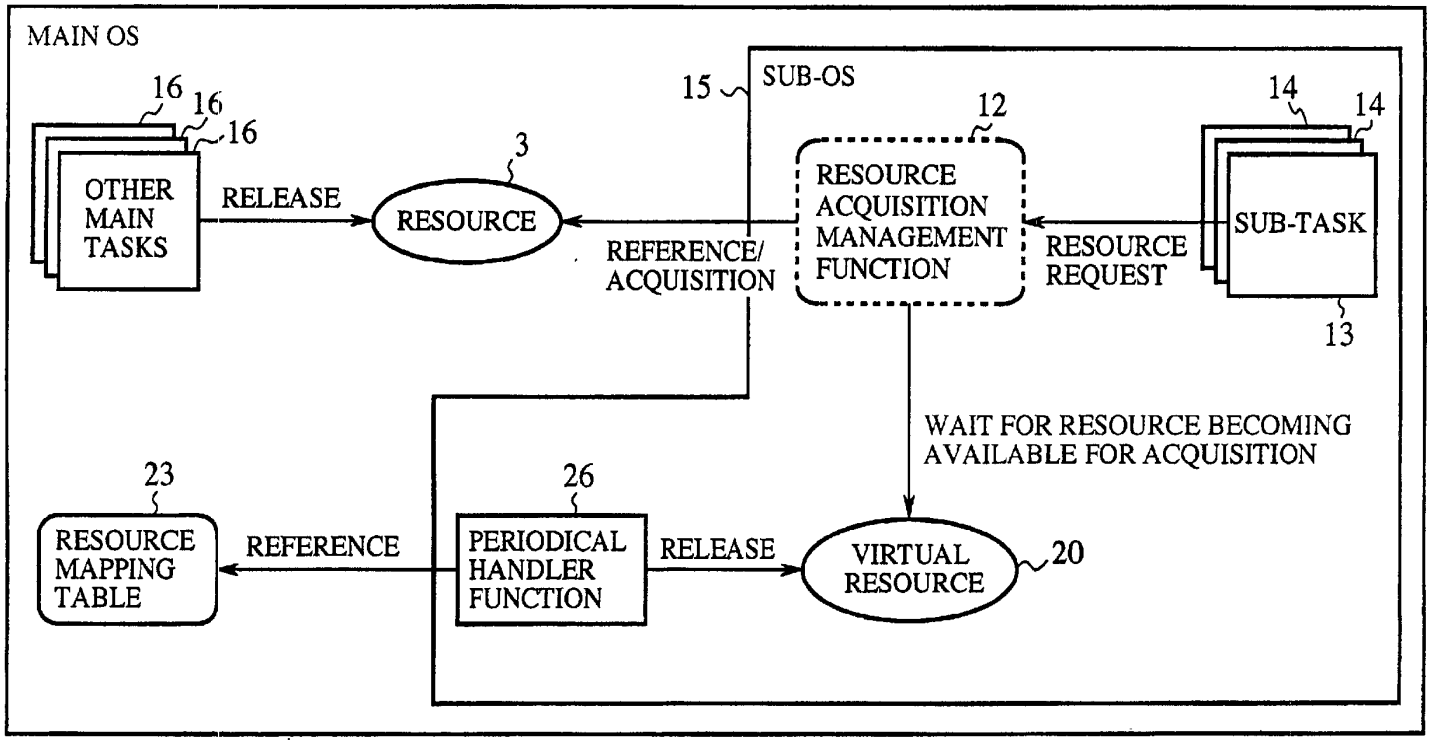
FIG.16



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